



Model output; **satellite** derived sea surface height (SSH) and SST; **ship-based underway measurements** of SST, SSS and hull mounted Acoustical Doppler Current Profilers, reveal an abundance of mesoscale and sub-mesoscale structures in subtropical surface water.

UNOLS ships have the capability to obtain high horizontal resolution surface layer information* that can knit together [meld] the data return from SPURS observational components, e.g. moorings, gliders, drifters, argo profilers and Aquarius.

A.L.Gordon, with grad student Julius Busecke, will participate on the KNORR September cruise to oversee the collection and QC of underway data (CTD, xCTD if available) along the ship track. And to direct specific ship track patterns at opportune times on non-interference basis.

* R/V Knorr Underway Instrumentation

RDI Ocean Surveyor 75 KHz ADCP

RDI WorkHorse Mariner 300 ADCP

Sea surface temperature; Sea surface conductivity;

Fluorometer; Wind speed & direction; Air temperature;

Barometric pressure; Relative humidity; Short wave solar radiation; Precipitation

Underway data

Underway data April-May 2004 DISCOVERY
Black line: SSS ~0.6 km spacing, CTD in green

